

# PATENT ABSTRACTS OF JAPAN

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(21)Application number : 2000-068766 (71)Applicant : NARA INSTITUTE OF  
SCIENCE &  
TECHNOLOGY

(22)Date of filing : 13.03.2000 (72)Inventor : OBUIE YOSHIKI  
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(54) NEW MERCAPTO-SUBSTITUTED IMIDAZOLYLPORPHYRIN METAL  
COMPLEX MONOMER, POLYMER HAVING THE SAME AS RECURRING  
UNIT AND METHOD FOR PRODUCING THE SAME

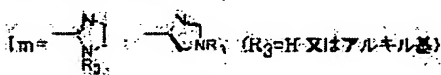
(57)Abstract:

PROBLEM TO BE SOLVED: To provide a device which is a transmitting device of an extremely minute light energy and electronic energy in a nanometer scale capable of being applied and developed to an artificial photosynthesis and a new material for solar cells, allows to strongly and stably connect to the surface of an electrode, has easiness of connection and disconnection and is formed by self- organization.

SOLUTION: This mercapto-substituted imidazolylporphyrin metal complex monomer is represented by general formula (1) and the polymer has the metal complex monomer as a monomer.



R<sub>1</sub>=アルキル基、芳香族アリール基、アルキル置換アリール基、  
置換アリール基、芳香族アリール基  
M=Zn, Cu, Ru, Fe, Co  
X=アリーレン基及びアリーレン基の少なくとも一方を含む二価の基  
R<sub>2</sub>=H又はアルキル基



(2)

(3)

## LEGAL STATUS

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